## Regular Expressions

**Substrings language**

1. Define a regular expression for language that contains the substring ba.
2. All strings that do not contain the substring ba.

3) Define a regular expression that contains the substring 00.

4) All strings that do not contain the substring 00.

5) All Strings which do not contain the substring 101.

**EVEN-EVEN Language**

6) All strings that contain an even number of a’s and an even number of b’s.

7) Define an RE for language that contains an even number of a’s

8) Define an RE for language that contains an even number of b’s\

9) Regular expression even length strings

**Others**

10) Regular expression for the set of all strings whose first symbol from the right end is a 0.

11) Regular expression for the set of all strings whose second symbol from the right end is a 0.

12) Regular expression for the set of all strings whose 3rd symbol from the right end is a 0.

13) Regular expression of an equal number of ‘a’ an equal number of ‘b’

**ODD**

14) Regular expression of an odd number of b or odd number of a

15) Regular Expression of add-length strings

16) Regular expressions of even-length strings start with a and an odd length strings start with b